

54/051
10/541051

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

Rec'd PCT/PTO 29 JUN 2005

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/059973 A2(51) International Patent Classification⁷: **H04N 7/00**(21) International Application Number:
PCT/IB2003/005789

(22) International Filing Date: 5 December 2003 (05.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02080597.4 30 December 2002 (30.12.2002) EP(71) Applicant (for all designated States except US): **KONIN-
KLJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

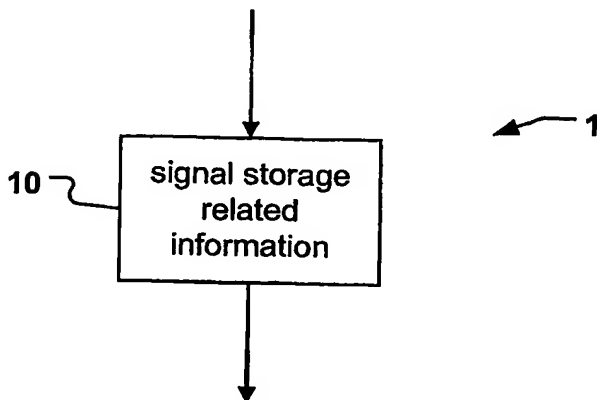
(72) Inventors; and

(75) Inventors/Applicants (for US only): **NEWTON, Philip**,
S. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindh-
hoven (NL). **KELLY, Declan, P.** [IE/NL]; c/o Prof. Hol-
stlaan 6, NL-5656 AA Eindhoven (NL). **TAN, Jingwei**
[CN/CN]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven
(NL). **SHI, Jun** [CN/CN]; c/o Prof. Holstlaan 6, NL-5656
AA Eindhoven (NL). **GAN, Liang** [CN/CN]; c/o Prof.
Holstlaan 6, NL-5656 AA Eindhoven (NL).(74) Agent: **GROENENDAAL, Antonius, W., M.**; Philips
Intellectual Property & Standards, Prof. Holstlaan 6,
NL-5656 AA Eindhoven (NL).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).**Declaration under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii)) for the following designations AE,
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,
ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD,
SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,
LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG)

[Continued on next page]

(54) Title: METHOD OF TRANSMITTING INTERACTIVE TELEVISION



(57) **Abstract**— A method (1) of transmitting
interactive television, whereby interactive television
applications are transmitted inside application-mod-
ules. These modules are transmitted in a broadcast
stream. Recording systems cannot decide which
modules are to be recorded. Therefore storage
related information of said modules is signalled in the
broadcast stream. Module identification information
is implemented in the Application Information Table
(AIT) and/or in the Download Information Indication
(DII) message. Thus information is included in
the broadcast stream concerning categories stating
whether application modules are mandatory, optional
or forbidden to record. Alternatively properties
of a module are chosen from Code/Data/Both
and/or Fixed/Variable. Recording systems use this
information to decide if application modules are to be
recorded or disregarded. Alternatively, application module identification information is transmitted in said broadcast stream. A module identification number is used to avoid multiple recordings. Application modules having the same category are preferably grouped together.

WO 2004/059973 A2

WO 2004/059973 A2

10 54 1051
Rec'd PCT/PTD 29 JUN 2005

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.